Saurabh Barde

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Education

D.Y. Patil College of Engineering — Pune, MAHARASHTRA
Bachelor of Engineering | CGPA: 8.89 — *July 2020 – June 2024*

Experience

Associate Software Analyst — July 2024 – Present
PTC — *Pune , Maharashtra*

- Implementing an **AI-powered debugging agent** for a legacy **C++ codebase** using **LangGraph** for stateful workflow orchestration, **LangChain** for LLM, retrieval & tool integrations, enabling **context-aware code retrieval, dependency analysis & LLM-based root-cause analysis**, improving Dev productivity by **50%**.
- Implemented **Server-Sent Events (SSE)** for real-time, unidirectional data streaming between backend services and client, enabling seamless server-to-client updates and reducing the need for continuous polling.
- Migrated lightweight functionality from **SOAP** to **RESTful APIs**, selecting a lower-overhead communication architecture for targeted services and reducing application latency by **10%**.

Research and Development Intern — July 2023 – June 2024
PTC — *Pune , Maharashtra*

- Developed **SaaS applications** using **Angular**, **Express.js**, and **MongoDB**, implementing reusable UI components, **RESTful APIs**, and database integrations for scalable engineering workflows.
- Engineered a **Visual Studio Extension** using **C#/.NET** and **Creo APIs** to automate end-to-end package generation and deployment, eliminating repetitive manual workflows and reducing **manual effort by 80%**.

FullStack Developer Intern — June 2023 – Aug 2023
Nucast.io — *Remote*

- Developed scalable, responsive web applications using **Next.js**, and **Framer Motion**, implementing reusable components, optimized rendering, and interactive UI workflows.
- Designed **PostgreSQL** schemas and integrated **Prisma ORM** for efficient data modeling and database operations, optimizing **Database Queries** and application performance to achieve a **10% improvement** in **Platform Performance**.

Frontend Developer(Web) and UI Designer — June 2022 – Dec 2022
Rempo — *Remote , Consultancy Project*

- Led the development of a **Consultancy Project** over 5–6 months, architecting and implementing a scalable **frontend architecture**, responsive UI/UX, and customer-facing workflows, contributing to **1,000+ new customer acquisitions** through the platform.
- Letter of Appreciation

Projects

Grabbits | *React, NodeJs, ExpressJs , MongoDB,Google Analytics*

- It is a student-run community, that helps students succeed in tech by sharing opportunities, resources, and motivation in the form of Internships, Jobs, and Podcasts.
- This website will help user and keep him updated with upcoming opportunities.

Flipverse | *Hardhat , Moralis, Solidity ,Ethereum , MERN Stack , Figma*

- It is a Blockchain-based eCommerce warranty system using NFTs The objective is to replace the physical warranty and have block chain based warranty using NFT which will ensure authenticity and security.
- As the Project was blockchain based I have also designed and developed the UI accordingly.

Technical Skills

Programming Languages: JavaScript, Typescript, Go (Golang), C++
Libraries / Frameworks: Next.js, Prisma, ReactJS, Redux, Node.js, Express.js, Mongoose, TailwindCSS, HTML
Messaging & Streaming: Queues, Pub/Sub Systems, WebSockets
AI / GenAI: LangChain, LangGraph, Model Context Protocol(MCP), Retrieval-Augmented Generation(RAG), Vector Embeddings(FAISS), Prompt Engineering
Databases & Storage: MongoDB, PostgresSQL, Redis, Pinecone
Cloud & DevOps : AWS , Docker, CI/CD (github actions)
Deployment and Version Control: Git, GitHub, Vercel
Developer Tools: Postman, VSCode, Claude Code

Achievements

- **PTC India AI Hackathon Winner (2026)**
- **Qualified for Round 2 of Flipkart Grid 4.0 (2022)**